

Key Stage 4 Curriculum Map 2021 - 2022

Term 3

Subject: Physics	Year: 10		
Focus/Topic	UAE Links	HPL Links	Home Learning / Reading
 7.1 Nature of Waves 7.2 Measuring Waves 7.3 Refraction and Reflection 	Measure the speed of a wave, Laguna waterpark	VAA: Empathetic Collaborative: Students will be working together and collaborating with each other, sharing ideas and	Guided reading
 7.4 Diffraction 8.1 EM Spectrum 8.2 Light, Infrared, Microwaves and Radiowaves 	Museum of illusions, Al Seef, Dubai Creek, Etisalat, Du Optical fibers	ACP: Analysing Critical thinking: Students will work hard, analyse, link previous knowledge	Guided reading
 8.3 Communications 8.4 UV, X-rays and Gamma rays 8.5 X-rays in Medicine 	Sun and radiation in the UAE	to new knowledge realise and create graphs, diagrams and answers to exam questions.	Guided reading
9 Sound and UltrasoundRevisionTest for waves	Hospitals, X-rays and ultrasound in Dubai	VAA: Agile Enquiring: Student will be curious and can work independently to	Guided reading
Test review10.1 Reflection10.2 Refraction	Mirages in Dubai	control their own learning showing they have practiced enquiring	Guided reading
 10.3 Refractive index 10.4 Total internal reflection 11.1 Ray diagrams and concave and convex Lenses 	How do glass buildings in the UAE not reflect light onto drivers?		Guided reading

Test for lightTest review		ACP: Linking Connection finding: Students will find			
 12.1 States of Matter 12.2 Changes of State 12.3 Specific Heat Capacity 	What element can be found in 3 different states in the UAE?	connections between different topics within science and therefore be able to give more detailed explanations VAA: Hardworking Students will have to show resilience and perseverance when completing their guided reading and all the tasks in the classroom	Guided reading		
 12.4Specific Latent Heat 12.4 Cooling curve required practical write up 12.4 Cooling curve required practical 	Why is the sea always cooler than the air?		Guided reading		
 Topics 1,2 Revision Topics 3,4 Revision Topics 5,6 Revision 	Steel is used extensively in skyscrapers. What is the cooling curve of the UAE?	III the classiooni	Guided reading		
 Topics 7,8,9 Revision Topics 10,11 Revision Topic 12 Revision 	What forces is the Burj Khalifa built to withstand?		Guided reading		
End of term 3					